

PATENT

**ELECTRICALLY CONDUCTING GLASS STRANDS AND  
STRUCTURES COMPRISING SUCH STRANDS**

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**ABSTRACT**

The invention relates to glass strands and glass strand structures coated with an electrically conducting coating composition which comprises (as % by weight of solid matter):

- 6 to 50% of a film-forming agent, preferably 6 to 45%,
- 5 to 40% of at least one compound chosen from plasticizing agents, surface-active agents and/or dispersing agents,
- 20 to 75% of electrically conducting particles,
- 0 to 10% of a doping agent,
- 0 to 10% of a thickening agent,
- 0 to 15% of additives.

The invention also relates to the electrically conducting coating composition used to coat the said strands and strand structures, to their process of manufacture and to the composite materials including these strands or strand structures.

Application to the preparation of structures and composite materials which can be heated by the Joule effect or which can be used for electromagnetic shielding.